

10 Switch Settings, Functions and Indicators

Tally Indicators

INPUT
POWER VIDEO COMPONENT HD/SDI

FUNCTION
BARS MARK ZOOM SHARPNESS

Screen adjustments
BRIGHT COLOR TINT CONTRAST

4:3
16:9

Power On/Off selection switch
Illuminates Red when power is applied. Turns Green when monitor is switched on

Input Source selectors.
Selected source will illuminate the indicator. Flashing indicates no signal present.
Component button toggles:
Tap 1-YPrPb interlace,
Tap 2-YprPb Progressive,
Tap 3-VGA

Function Control Table	
BUTTON	FUNCTION
BARS	Bars On/Off (overrides video input)
BARS + ZOOM	Sharpness (Toggles 4 Settings plus off)
MARK	Frame Aspect Shaded Overlay Tap Once-14:9 Tap Twice-13:9 Tap Thrice - 4:3 Tap 4 times -1.85:1 Tap 5 times - 2.35:1
Hold MARK for 2 seconds	Center & Safe area display (Toggle On/Off)
ZOOM	Tap once - Mono Tap Twice-Zoom Mono Tap Thrice-Zoom Color Tap four times-Normal
Hold BARS for 2 seconds	Blue only display (Toggle On/Off)
Hold ZOOM for 2 seconds	16:9/4:3 aspect toggle

Screen adjustments
TINT adjust is not available for PAL, Digital, or Component signal standards.

11 Warranty

Marshall Electronics warrants to the first consumer, that this V-R65P-HD portable monitor will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of one year from the purchase date.

This warranty is extended to the first consumer only and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right, not to honor the warranty set forth above. Therefore, labor and parts may be charged to you.

This warranty does not apply to product exterior and cosmetics. Misuse, abnormal service or handling, improper alterations or modifications in design or construction, voids this warranty. No sales personnel of the seller, nor any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above.

Prior to any warranty repair, a Return Material Authorization (RMA) must be issued by the dealer/distributor that sold the V-R65P-HD to the original user. Returned products must be clearly identified with the RMA number on the outside packaging.

Marshall Electronics reserves the right to repair or replace warranted products after evaluation by the factory repair depot.

Due to constant effort to improve products and product features, specifications may change without notice.

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Marshall Electronics

1910 East Maple Ave.
El Segundo, CA 90245
Tel.: 800-800-6608 • Fax: 310-333-0688
www.LCDRacks.com
Email: sales@lcdracks.com



V-R65P-HD Users Guide

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1 Product Overview

The **V-R65P-HD** is the perfect solution for HDTV or SD Wide Screen portable monitor applications. The unit offers a flexible input configuration without the need of special adapter boxes. There are Standard inputs with active loop through on each connection for HDS/SDI (SMPTE259M, SMPTE-292M) and composite video with PAL/NTSC automatic recognition. An HD-15 multifunction connector for HD or SD analog component signals (SMPTE274M) is also included. For computer graphic applications, the HD-15 connector is also used for scalable XGA to SXGA input. Additional features include Monochrome, Zoom function for camera focus, 6 Frame Marker Overlays, center and safe area marks plus Blue only display for use with SMPTE color bars.

2 Features

Standard Inputs	<ul style="list-style-type: none"> • HDS/SDI (SMPTE292M/296M) with active loop through • SDI (SMPTE259M) (ITU-R BT.601-5) • Component Analog HD/SD (SMPTE274M) (SMPTE/EBU N-10) • Composite Video PAL/NTSC (ITU-R BT.470/SMPTE170M) with loop through • SVGA, XGA, SXGA with Automatic Scaling
Display Multiple Screen Formats and Frame Rates	<ul style="list-style-type: none"> • 525 -60i / 625 - 50i (Interlaced) • 480 x 640 - 23.973P, 24P, 25P, 29.97P, 30P, 59.94P, 60P (Progressive) • 720 x 1280 - - 23.973P, 24P, 25P, 29.97P, 30P, 59.94P, 60P (Progressive) • 1035 x 1920 - 59.94i, 60i (Interlaced) • 1080 x 1920 - 50i, 59.94i, 60i / 23.973Psf, 24Psf, 25Psf, 29.97Psf, 30Psf
On Screen Frame Markers in 16:9 Mode	<ul style="list-style-type: none"> • Center Frame Quad and Safe Area Mark(White and Black Super Imposed) • 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1 Shaded Overlay
B&W (Mono) Mode	<ul style="list-style-type: none"> • Luma only checks for green screen shadows, on set lighting, etc.
Blue Screen	<ul style="list-style-type: none"> • Use for adjustment to SMPTE color Bars
Zoom Function	<ul style="list-style-type: none"> • Use for screen center camera focus. Zoom available for all inputs
Built-in color bars	<ul style="list-style-type: none"> • For screen set up on VCR/DDR playback
Sharpness Function	<ul style="list-style-type: none"> • For enhanced viewing of interlaced images
Tally	<ul style="list-style-type: none"> • Three LEDs (Red, Green, Amber) produce 7 different tally indications

3 Standard Accessories

Accessories Supplied with the V-R65-HD:



1. 6 foot Component signals hook up cable



2. "Brick" type 12vdc power supply 5.0 Amp Max



3. Users manual

4 Optional Accessories

Stand	V-LCD4-ST		Use for table top mount
Camera Hot Shoe Mount	V-LCD4-MT		Attaches monitor to camera
Sun Hood	V-H700P		Use for viewing in bright lighting or outdoors

TABLE-1 Analog Component High Definition Video, Standard Definition Video or Computer VGA to UGA Connector - Pin Assignment

Type	HD Analog color difference YPbPr	SD Analog color difference Y, R-Y, B-Y	HD or SD Analog RGB (Sync on Green)	VGA to UXGA
Pin1	Pr	R-Y	Red	Red
Pin 2	Y	Y	Green	Green
Pin3	Pb	B-Y	Blue	Blue
Pin4				
Pin5				
Pin6	Ground	Ground	Ground	Ground
Pin7	Ground	Ground	Ground	Ground
Pin8	Ground	Ground	Ground	Ground
Pin9				
Pin10				
Pin11				
Pin12				
Pin13				
Pin14				H Sync
Pin15				V Sync

TABLE-2 YPbPr/RGB Analog Component and Composite Video Systems Supported by the V-R65P-HD

Signal	Frames per Second	Aspect	Active Lines	Scanning Method
525-60i	30/29.97	4:3/16:9	483	Interlaced
625-50i	25	4:3/16:9	576	Interlaced
640 x 480P	60/59.94/30/29.97/24/23.97	4:3	483	Progressive
720x480P	60/59.94	16:9	483	Progressive
1280x720P	60/59.94	16:9	720	Progressive
1920x1035	60/59.94	4:3/16:9	1035	Interlaced
1920x1080	60/59.94/50	4:3/16:9	1080	Interlaced
1920x1080	30/29.97	4:3/16:9	1080	Progressive

Computer Display Systems Supported by the V-R65P-HD

Standard	Resolution (Frequency)
SVGA	800 x 600 (60 , 75 ,85 Hz)
XGA	1024 x 768 (60 ,75 ,85 Hz)
SXGA	1280 x 960 (60 Hz)
SXGA	1280 x 1024 (60 Hz)

TABLE-3 HDS/SDI Input BNC Connector Signals

Signal	Frames per Second	Aspect	Active Lines	Scanning Method	Data Rate
525-60i	30/29.97	4:3/16:9	483	Interlaced	270Mb/s
625-50i	25	4:3/16:9	576	Interlaced	270Mb/s
640 x 480P	60/59.94/30/29.97/24/23.97	4:3	483	Progressive	540Mb/s
720x480P	60/59.94/30/29.97/24/23.97	16:9	483	Progressive	540Mb/s
1280x720P	60/59.94/30/29.97/24/23.97	16:9	720	Progressive	1.5Gb/s
1920x1035	60/59.94	4:3/16:9	1035	Interlaced	1.5Gb/s
1920x1080	60/59.94/50	4:3/16:9	1080	Interlaced	1.5Gb/s
1920x1080	30/29.97/25/24/23.97	4:3/16:9	1080	Progressive	1.5Gb/s

TABLE-4 Analog Composite Input BNC Connector Signals

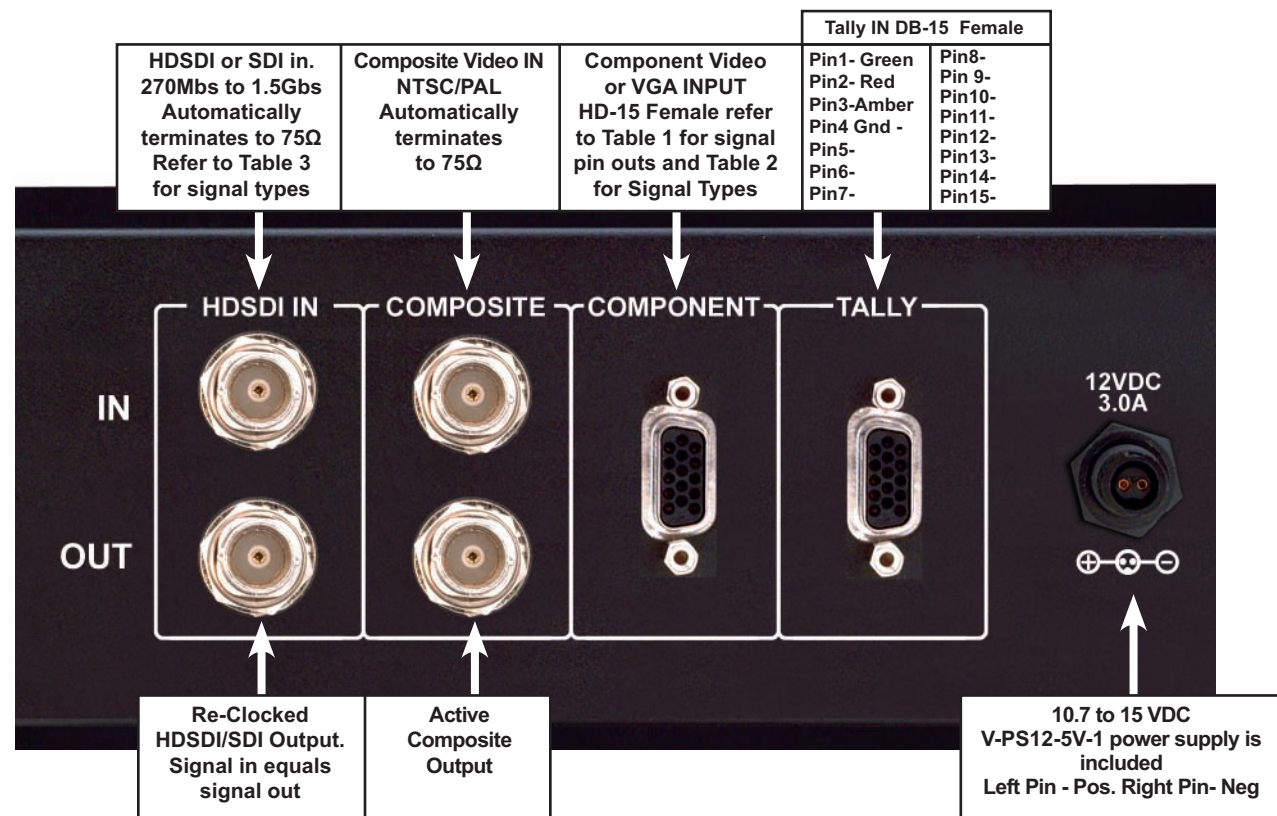
Signal	Frames per Second	Aspect	Active Lines	Scanning Method	Data Rate
525-60i	30/29.97	4:3/16:9	483	Interlaced	270Mb/s
625-50i	25	4:3/16:9	576	Interlaced	270Mb/s

8 Operational Setup













1. Unpack the V-R65P-HD and accompanying V-PS12-5V-1 power supply. Physically inspect for any damage that may have occurred during shipping. Should there be any damage, immediately contact Marshall Electronics at 800-800-6608. If you are not located within the continental United States call +1 310-333-0606.
2. Connect required cables for signal input and output.
Please note that power must be applied to the V-R65P-HD for the HDSDI/SDI and composite outputs to be activated. All BNC connectors should be rated for 75Ω.
3. Plug the V-PS12-5V-1 power supply into the A.C. source
Please note that power can be supplied from a variety of DC sources, such as batteries or Vehicle power. Input power range is 10.7 to 15 Volt D.C. In operation, the V-R65P-HD will draw approx. 0.8 amp. Attach twist lock power connection from V-PS12-5V-1 power supply to the back of the unit.
4. Turn on the V-R65P-HD by depressing the power switch located on the front of the unit.

9 Input Connectors

* Tally lamps active when connected to ground



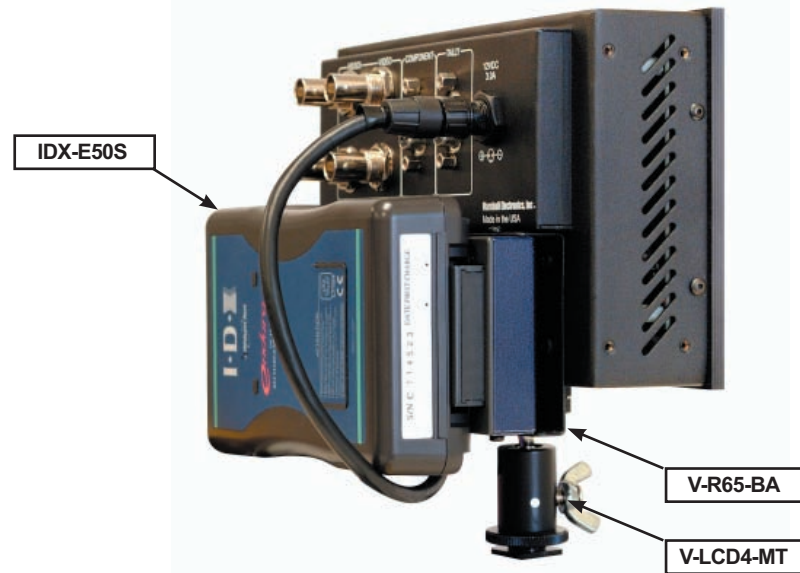
Optional Accessories (continued)

Replacement Protection Screen	V-R65-RPS		Use to replace damaged or scratched protective cover for screen
Rack-mount kit A	V-R65-1M	(Image not available)	Single monitor mount for 19" rack
Rack-mount kit B	V-R65-2M	(Image not available)	Dual monitor mount for 19" rack
Component input cable	RGB-5HD15-X		HD-15 to BNC break out cable (X = Length in feet 6, 10, 15, 20)
Power Adapter Cable	V-PAC-D		Use with Anton Bauer D-type connection
Power Adapter Cable	V-PAC-XLR		Use with 4 Pin XLR connections
Mount for IDX Batteries	V-R65-BA		Attaches to V-R65P-HD monitor
Sequential 2 channel charger	IDX-VL-2Plus		2-channel sequential charger with a built-in 60W power supply. Charges 2 ENDURA E series batteries in fewer than 5 hours. One 10' XLR cable included. only 2 lbs
Sequential 4 channel charger	IDX-VL-4		Economically charges 4 ENDURA E series batteries in under 6 hours using Full Power Charge (FPC) method
Simultaneous 4 channel charger	IDX-VL-4S		Charges 4 ENDURA E series batteries in 2.5 hours or less
55 W Lithium Battery	IDX-E50S		V-Mount battery pack with 3 LED power Indicator
55 W Lithium Battery with Power Link	IDX-E50		V-Mount Battery Pack with PowerLink includes accurate Power Status Display and supports Digi-View
82 W Lithium Battery	IDX-E80S		V-Mount battery pack with 3 LED power Indicator
82 W Lithium Battery with Power Link	IDX-E80		V-Mount Battery Pack with PowerLink includes accurate Power Status Display and supports Digi-View

V-R65P-HD shown with side mount configuration of V-R65-BA adaptor and IDX-E50S battery installed



V-R65P-HD shown with V-LCD4-MT camera hot shoe mount attached plus rear mount configuration of V-R65-BA adaptor and IDX-E50S battery



V-R65P-HD shown with V-H700P hood attached plus side mount configuration of V-R65-BA adaptor and IDX-E50S battery



5 Electrical Specifications

Display (Viewing Area)	6.5" (5.67"H x 3.10"V) (144.0mm x 78.24mm)
Viewing Angles	130°H x 120°V
Resolution (RGB Dots)	800H x RGBx480V (1.2 million pixels)
Contrast Ratio	400:1
Dot Pitch	0.163 mm
Pixel Response	<25ms
Brightness	400 cd/m ²
System	NTSC/PAL auto recognition for composite video
Inputs	Composite with loop (BNC) HDS/SDI with re-clocked output (BNC) Multiple Analog Format HD-15

6 Mechanical Specification

Dimensions	7.25"W x 4.25"H x 2.5"D
Approx. Weight	3 lbs
Power Consumption	12VDC, 5.0 Amps max - UL Class 2 (supply included)
Display Viewing Area	6.5" (5.67"H x 3.10"V) (144.0mm x 78.24mm)

7 Faceplate Cleaning

When cleaning the faceplate it is very important to use non-abrasive and ammonia free cleaning agents and a clean micro fiber clothe, or cheese clothe. Do not use paper towels. Paper towel fibers are too coarse and will scratch the surface of the Plexiglas faceplate. Paper towels may also leave streaks on the surface. Antistatic and fingerprint resistant Plexiglas cleaning agents are recommended.

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